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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HADLACZKY *et al.*

Serial No.: 09/096,648

Filed: June 12, 1998

Customer No.: 24961

Confirmation No.: 2049

For: **ARTIFICIAL CHROMOSOMES,  
USES THEREOF AND METHODS  
FOR PREPARING ARTIFICIAL  
CHROMOSOMES**

Art Unit: 1632

Examiner: Ton, Thaian

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

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EV 335465060 US

Date of Deposit August 7, 2003

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Alexandria, VA 22313-1450

08/07/2003

Date

Michael Lough

TRANSMITTAL LETTER

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith are a Supplemental Information Disclosure Statement, Form PTO-1449 (4 pages), copies of cited references and a check in the amount of \$180 and for filing in connection with the above-identified application.

- The Commissioner is hereby authorized to charge any fee, including that submitted herewith if the attached check(s) is in the wrong amount or otherwise improper or missing, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213.

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman  
Registration No. 33,779

Attorney Docket No. 24601-402A

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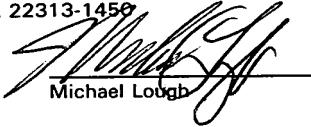
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Since this Supplemental Information Disclosure Statement is filed after receipt of a first Office Action on the merits for the above-captioned application, the filing fee of \$180.00 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (4 pages) and copies of the cited documents are provided herewith.

The cited documents, listed on Form PTO-1449 and supplied herewith, are in the English language. Hence, in accordance with the requirements of 37 C.F.R. § 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. applications which are commonly owned and/or have one or more inventors in common.

**U.S.S.N. 09/096,648**

**Hadlaczky et al.**

**Supplemental Information Disclosure Statement**

<b><u>U.S.S.N.</u></b>	<b><u>Filing Date</u></b>	<b><u>Docket No.</u></b>
10/125,767	04/17/02	24601-402J
10/151,078	05/16/02	24601-402K
10/151,081	05/16/02	24601-402L
10/219,694	08/14/02	24601-402M
10/287,313	11/01/02	24601-402N
10/235,119	09/03/02	24601-416D
10/161,408	05/30/02	24601-419
10/161,403	05/30/02	24601-420
10/428,653	05/01/03	24601-426

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

\* \* \*

Respectfully submitted,  
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By:

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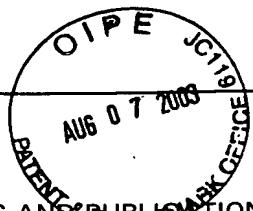
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FORM PTO-1449

ATTY. DOCKET NO.  
24601-402ASERIAL NO.  
09/096,648CONFIRM NO.  
2049LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
HADLACZKY et al.CUSTOMER NO.  
24961FILING DATE  
June 12, 1998GROUP  
1632

\* If an asterisk is placed beside the reference number, a copy is NOT provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

+ Derwent English language abstract and/or English translation provided.

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
NONE							

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
NONE							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A	Albertsen et al., "Construction and characterization of a yeast artificial chromosome library containing seven haploid human genome equivalents", <i>PNAS</i> , <u>87</u> :4256-42-60 (2000)
B	Berlani et al., "Genomic organization of two families of highly repeated nuclear DNA sequences of maize selected for autonomous replicating activity in yeast", <i>Plant Molecular Biol.</i> , <u>11</u> :161-172 (1988)
C	Berlani et al., "Sequence analysis of three fragments of maize nuclear DNA which replicate autonomously in yeast", <i>Plant Molecular Biol.</i> , <u>11</u> :173-182 (1988)
D	Blackburn et al., BOOK: <i>Telomeres</i> , Chapter 13, "Plant Telomeres", Cold Spring Harbor Laboratory Press, pp. 371-387 (1995)
E	Brown et al., "Artificial chromosomes: ideal vectors?", <i>TIBTECH</i> , <u>18</u> :218-223 (2000)
F	Dausset et al., "The CEPH YAC Library", <i>Behring Inst. Mitt.</i> , <u>91</u> :13-20 (1992)
G	Dixon et al., "Engineering Chimeras for Noah's Ark", <i>Hastings Cent. Rep.</i> , <u>14</u> (2):10-12 (1984)
H	Dresser, B.L., "Indian Desert Cat Birth Makes History", <i>Cat News:Issue 11 #19</i> , pgs. 1-3 (1989)

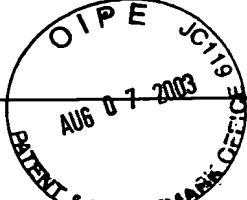
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Title: ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES

FORM PTO-1449



ATTY. DOCKET NO. 24601-402A	SERIAL NO. 09/096,648	CONFIRM NO. 2049
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**LIST OF PATENTS AND PUBLICATIONS FOR  
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STATEMENT**

APPLICANT HADLACZKY et al.	CUSTOMER NO. 24961
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FILING DATE June 12, 1998	GROUP 1632
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**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

I	Eckdahl et al., "DNA structures associated with autonomously replicating sequences from plant", <i>Plant molecular Biol.</i> , <u>12</u> :507-516 (1989)
J	Frarry et al., "Molecular mapping of the centromeres of tomato chromosomes 7 and 9", <i>Mol. Gen. Genet.</i> , <u>250</u> :295-304 (1996)
K	Giraldo et al., "Size matters: use of YACs, BACs and PACs in transgenic animals", <i>Transgenic Res.</i> , <u>10</u> :83-103 (2001)
L	Hadlaczky et al., "DNA Synthesis And Division In Interkingdom Heterokaryons", <i>In Vitro</i> , <u>16</u> (8):647-650 (1980)
M	Houben et al., "Immunostaining and interphase arrangement of field bean kinetochores", <i>Chrom. Res.</i> , <u>3</u> :27-31 (1995)
N	Jacobovits et al., "Germ-line transmission and expression of a human-derived yeast artificial chromosome", <i>Nature</i> , <u>362</u> :255-258 (1993)
O	Jiang et al., "A conserved repetitive DNA element located in the centromeres of cereal chromosomes", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>93</u> :14210-14213 (1996)
P	Kaszas et al., "Misdivision analysis of centromere structure in maize", <i>EMBO J.</i> , <u>15</u> (19):5246-5255 (1996)
Q	Kraemer et al., "Intra- and Interspecific Embryo Transfer", <i>J. Experimental Zoology</i> , <u>228</u> :363-371 (1983)
R	Lanza et al., "Cloning Noah's Ark", <i>Scientific American</i> , Nov:84-89 (2000)
S	Larin et al., "A method for linking yeast artificial chromosomes", <i>Nucl. Acid. Res.</i> , <u>24</u> :4192-4196 (1996)
T	Libert et al., "Construction of a Bovine Genomic Library of Large Yeast Artificial Chromosome Clones", <i>Genomics</i> , <u>18</u> :270-276 (1993)
U	Loi et al., "Genetic rescue of an endangered mammal by cross-species nuclear transfer using post-mortem somatic cells", <i>Nat. Biotechnol.</i> , <u>19</u> :962-964 (2001)
V	Marshall et al., "Transfer of YACs up to 2.3 Mb intact into human cells with polyethylenimine", <i>Gene Therapy</i> , <u>6</u> :1634-1637 (1999)

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Title: **ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES**

FORM PTO-1449



ATTY. DOCKET NO. 24601-402A	SERIAL NO. 09/096,648	CONFIRM NO. 2049
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#### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

W	Mole-Bajer et al., "Autoantibodies from a patient with scleroderma CREST recognized kinetochores of the higher plant <i>Haemanthus</i> ", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>87</u> :3599-3603 (1990)
X	Moore et al., "Centromeric sites and cereal chromosome evolution", <i>Chromosoma</i> , <u>105</u> :321-323 (1997)
Y	Palmieri et al., "Construction of a pilot human YAC library in a recombination-defective yeast strain", <i>Gene</i> , <u>188</u> :169-174 (1997)
Z	Pope et al., "In vitro fertilization in domestic and non-domestic cats including sequences of early nuclear events, development in vitro, cryopreservation and successful intra- and interspecies embryo transfer," <i>J. Reprod. Fert. Suppl.</i> <u>47</u> : 189-201 (1993)
AA	Press Release Advanced Cell January 12, 2001 "Advanced Cell Technology Announces Birth of First Cloned Endangered"
AB	Press Release Advanced Cell April 8, 2003 "Collaborative Effort Yields Endangered Species Clone"
AC	Rhodes et al., "Telomere structure and function", <i>Curr. Opin. Struc. Biol.</i> , <u>5</u> :311-322 (1995)
AD	Rorie et al., "A simplified procedure for making reconstituted blastocysts for interspecific and intergeneric transfer", <i>Vet. Rec.</i> , <u>135</u> :186-187 (1994)
AE	Rossant and Frels, "Interspecific Chimeras in Mammals: Successful Production of Live Chimeras Between <i>Mus musculus</i> and <i>Mus caroli</i> ", <i>Science</i> , <u>208</u> :419-421 (1980)
AF	Schedl et al., "A method for the generation of YAC transgenic mice by pronuclear microinjection", <i>Nuc. Acid. Res.</i> , <u>21</u> :4783-4787 (1993)
AG	Shen et al., "A structurally defined mini-chromosome vector for the mouse germ line", <i>Current Biology</i> , <u>10</u> :31-34 (2000)
AH	Summers et al., "Interspecific Chimerism-The Characterization And Immunological Responsiveness of <i>Bos Taurus</i> - <i>Bos Indicus</i> Haemopoietic Chimeras Produced By Embryo Transfer", <i>Aust. J. Exp. Biol. Med. Sci.</i> , <u>62</u> (Pt1): 27-45 (1984)

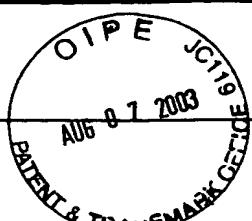
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AI	Takeda et al., "Construction of a bovine yeast artificial chromosome (YAC) library", <i>Animal Genetics</i> , <u>29</u> :216-219 (1998)
AJ	Toye et al., "A yeast artificial chromosome (YAC) library containing 10 haploid chicken genome equivalents", <i>Mammalian Genome</i> , <u>8</u> :274-276 (1997)
AK	Wada et al., "Chimeric YACs were generated at unreduced rates in conditions that suppress coligation", <i>NAR</i> , <u>22</u> :1651-1654 (1994)
AL	Woods et al., "A Mule Cloned from Fetal Cells by Nuclear Transfer", <i>Scienceexpress</i> published on line, May 2003
AM	Voet, D. and Voet, J., BOOK: <i>Biochemistry</i> , Chapter 33, "Eukaryotic Gene Expression", John Wiley & Sons, New York, p. 1033 (1990)
AN	Zhong et al., "Zebrafish Genomic Library in Yeast Artificial Chromosomes", <i>Genomics</i> , <u>48</u> :136-138 (1998)
AO	Zakian, "Telomeres: Beginning to Understand the End", <i>Science</i> , <u>270</u> :1601-1607 (1995)

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